

Frank NoÃ©

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9177783/publications.pdf>

Version: 2024-02-01

149
papers

15,875
citations

23567

58
h-index

19190

118
g-index

170
all docs

170
docs citations

170
times ranked

10066
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Markov models of molecular kinetics: Generation and validation. <i>Journal of Chemical Physics</i> , 2011, 134, 174105. | 3.0 | 968 |
| 2 | PyEMMA 2: A Software Package for Estimation, Validation, and Analysis of Markov Models. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5525-5542. | 5.3 | 876 |
| 3 | Identification of slow molecular order parameters for Markov model construction. <i>Journal of Chemical Physics</i> , 2013, 139, 015102. | 3.0 | 777 |
| 4 | Constructing the equilibrium ensemble of folding pathways from short off-equilibrium simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19011-19016. | 7.1 | 730 |
| 5 | Markov state models of biomolecular conformational dynamics. <i>Current Opinion in Structural Biology</i> , 2014, 25, 135-144. | 5.7 | 628 |
| 6 | Machine Learning for Molecular Simulation. <i>Annual Review of Physical Chemistry</i> , 2020, 71, 361-390. | 10.8 | 456 |
| 7 | Hierarchical analysis of conformational dynamics in biomolecules: Transition networks of metastable states. <i>Journal of Chemical Physics</i> , 2007, 126, 155102. | 3.0 | 363 |
| 8 | Spatiotemporal control of endocytosis by phosphatidylinositol-3,4-bisphosphate. <i>Nature</i> , 2013, 499, 233-237. | 27.8 | 362 |
| 9 | Protein conformational plasticity and complex ligand-binding kinetics explored by atomistic simulations and Markov models. <i>Nature Communications</i> , 2015, 6, 7653. | 12.8 | 344 |
| 10 | HTMD: High-Throughput Molecular Dynamics for Molecular Discovery. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1845-1852. | 5.3 | 343 |
| 11 | Boltzmann generators: Sampling equilibrium states of many-body systems with deep learning. <i>Science</i> , 2019, 365, . | 12.6 | 332 |
| 12 | VAMPnets for deep learning of molecular kinetics. <i>Nature Communications</i> , 2018, 9, 5. | 12.8 | 330 |
| 13 | Machine Learning of Coarse-Grained Molecular Dynamics Force Fields. <i>ACS Central Science</i> , 2019, 5, 755-767. | 11.3 | 306 |
| 14 | Complete protein-protein association kinetics in atomic detail revealed by molecular dynamics simulations and Markov modelling. <i>Nature Chemistry</i> , 2017, 9, 1005-1011. | 13.6 | 304 |
| 15 | Learning continuous and data-driven molecular descriptors by translating equivalent chemical representations. <i>Chemical Science</i> , 2019, 10, 1692-1701. | 7.4 | 293 |
| 16 | Time-lagged autoencoders: Deep learning of slow collective variables for molecular kinetics. <i>Journal of Chemical Physics</i> , 2018, 148, 241703. | 3.0 | 283 |
| 17 | Crystal structure of nucleotide-free dynamin. <i>Nature</i> , 2011, 477, 556-560. | 27.8 | 277 |
| 18 | Deep-neural-network solution of the electronic Schrödinger equation. <i>Nature Chemistry</i> , 2020, 12, 891-897. | 13.6 | 272 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Variational Approach to Molecular Kinetics. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1739-1752. | 5.3 | 256 |
| 20 | Camostat mesylate inhibits SARS-CoV-2 activation by TMPRSS2-related proteases and its metabolite GBPA exerts antiviral activity. <i>EBioMedicine</i> , 2021, 65, 103255. | 6.1 | 256 |
| 21 | A Variational Approach to Modeling Slow Processes in Stochastic Dynamical Systems. <i>Multiscale Modeling and Simulation</i> , 2013, 11, 635-655. | 1.6 | 249 |
| 22 | Data-Driven Model Reduction and Transfer Operator Approximation. <i>Journal of Nonlinear Science</i> , 2018, 28, 985-1010. | 2.1 | 192 |
| 23 | Markov state models based on milestoning. <i>Journal of Chemical Physics</i> , 2011, 134, 204105. | 3.0 | 184 |
| 24 | Unsupervised Learning Methods for Molecular Simulation Data. <i>Chemical Reviews</i> , 2021, 121, 9722-9758. | 47.7 | 182 |
| 25 | Kinetic Distance and Kinetic Maps from Molecular Dynamics Simulation. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5002-5011. | 5.3 | 173 |
| 26 | Multiensemble Markov models of molecular thermodynamics and kinetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3221-30. | 7.1 | 173 |
| 27 | On the Approximation Quality of Markov State Models. <i>Multiscale Modeling and Simulation</i> , 2010, 8, 1154-1177. | 1.6 | 160 |
| 28 | Variational Approach for Learning Markov Processes from Time Series Data. <i>Journal of Nonlinear Science</i> , 2020, 30, 23-66. | 2.1 | 156 |
| 29 | Projected and hidden Markov models for calculating kinetics and metastable states of complex molecules. <i>Journal of Chemical Physics</i> , 2013, 139, 184114. | 3.0 | 144 |
| 30 | Efficient multi-objective molecular optimization in a continuous latent space. <i>Chemical Science</i> , 2019, 10, 8016-8024. | 7.4 | 143 |
| 31 | Protein-peptide association kinetics beyond the seconds timescale from atomistic simulations. <i>Nature Communications</i> , 2017, 8, 1095. | 12.8 | 137 |
| 32 | EMMA: A Software Package for Markov Model Building and Analysis. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2223-2238. | 5.3 | 136 |
| 33 | Probability distributions of molecular observables computed from Markov models. <i>Journal of Chemical Physics</i> , 2008, 128, 244103. | 3.0 | 123 |
| 34 | ReaDDy - A Software for Particle-Based Reaction-Diffusion Dynamics in Crowded Cellular Environments. <i>PLoS ONE</i> , 2013, 8, e74261. | 2.5 | 117 |
| 35 | Collective variables for the study of long-time kinetics from molecular trajectories: theory and methods. <i>Current Opinion in Structural Biology</i> , 2017, 43, 141-147. | 5.7 | 116 |
| 36 | Machine learning for protein folding and dynamics. <i>Current Opinion in Structural Biology</i> , 2020, 60, 77-84. | 5.7 | 116 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Crystal structure of the dynamin tetramer. <i>Nature</i> , 2015, 525, 404-408. | 27.8 | 115 |
| 38 | Probing molecular kinetics with Markov models: metastable states, transition pathways and spectroscopic observables. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16912. | 2.8 | 106 |
| 39 | Dynamical fingerprints for probing individual relaxation processes in biomolecular dynamics with simulations and kinetic experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4822-4827. | 7.1 | 105 |
| 40 | Higher-Order Architecture of Rhodopsin in Intact Photoreceptors and Its Implication for Phototransduction Kinetics. <i>Structure</i> , 2015, 23, 628-638. | 3.3 | 105 |
| 41 | Coarse graining molecular dynamics with graph neural networks. <i>Journal of Chemical Physics</i> , 2020, 153, 194101. | 3.0 | 103 |
| 42 | Estimation and uncertainty of reversible Markov models. <i>Journal of Chemical Physics</i> , 2015, 143, 174101. | 3.0 | 102 |
| 43 | Lipid-mediated PX-BAR domain recruitment couples local membrane constriction to endocytic vesicle fission. <i>Nature Communications</i> , 2017, 8, 15873. | 12.8 | 101 |
| 44 | TorchMD: A Deep Learning Framework for Molecular Simulations. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2355-2363. | 5.3 | 101 |
| 45 | Variational Koopman models: Slow collective variables and molecular kinetics from short off-equilibrium simulations. <i>Journal of Chemical Physics</i> , 2017, 146, 154104. | 3.0 | 100 |
| 46 | Nanosopic compartmentalization of membrane protein motion at the axon initial segment. <i>Journal of Cell Biology</i> , 2016, 215, 37-46. | 5.2 | 99 |
| 47 | Combining experimental and simulation data of molecular processes via augmented Markov models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8265-8270. | 7.1 | 93 |
| 48 | Kinetic characterization of the critical step in HIV-1 protease maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20449-20454. | 7.1 | 92 |
| 49 | Transition Networks for the Comprehensive Characterization of Complex Conformational Change in Proteins. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 840-857. | 5.3 | 88 |
| 50 | Structure and assembly of the mitochondrial membrane remodelling GTPase Mgm1. <i>Nature</i> , 2019, 571, 429-433. | 27.8 | 86 |
| 51 | Complex RNA Folding Kinetics Revealed by Single-Molecule FRET and Hidden Markov Models. <i>Journal of the American Chemical Society</i> , 2014, 136, 4534-4543. | 13.7 | 84 |
| 52 | Reactive SINDy: Discovering governing reactions from concentration data. <i>Journal of Chemical Physics</i> , 2019, 150, 025101. | 3.0 | 84 |
| 53 | Simulation tools for particle-based reaction-diffusion dynamics in continuous space. <i>BMC Biophysics</i> , 2014, 7, 11. | 4.4 | 74 |
| 54 | Statistically optimal analysis of state-discretized trajectory data from multiple thermodynamic states. <i>Journal of Chemical Physics</i> , 2014, 141, 214106. | 3.0 | 73 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Alpha 1 Antitrypsin is an Inhibitor of the SARS-CoV-2â€œPriming Protease TMPRSS2. Pathogens and Immunity, 2021, 6, 55-74. | 3.1 | 73 |
| 56 | Dynamic properties of force fields. Journal of Chemical Physics, 2015, 142, 084101. | 3.0 | 70 |
| 57 | Roadmap on Machine learning in electronic structure. Electronic Structure, 2022, 4, 023004. | 2.8 | 69 |
| 58 | Molecular mechanism of inhibiting the SARS-CoV-2 cell entry facilitator TMPRSS2 with camostat and nafamostat. Chemical Science, 2021, 12, 983-992. | 7.4 | 66 |
| 59 | Dynamical Organization of Syntaxin-1A at the Presynaptic Active Zone. PLoS Computational Biology, 2015, 11, e1004407. | 3.2 | 65 |
| 60 | Mechanisms of Protein-Ligand Association and Its Modulation by Protein Mutations. Biophysical Journal, 2011, 100, 701-710. | 0.5 | 62 |
| 61 | ReaDDy 2: Fast and flexible software framework for interacting-particle reaction dynamics. PLoS Computational Biology, 2019, 15, e1006830. | 3.2 | 59 |
| 62 | Hierarchical Time-Lagged Independent Component Analysis: Computing Slow Modes and Reaction Coordinates for Large Molecular Systems. Journal of Chemical Theory and Computation, 2016, 12, 6118-6129. | 5.3 | 57 |
| 63 | Identifying optimal cycles in quantum thermal machines with reinforcement-learning. Npj Quantum Information, 2022, 8, . | 6.7 | 57 |
| 64 | Dynamical reweighting: Improved estimates of dynamical properties from simulations at multiple temperatures. Journal of Chemical Physics, 2011, 134, 244107. | 3.0 | 55 |
| 65 | Investigating Molecular Kinetics by Variationally Optimized Diffusion Maps. Journal of Chemical Theory and Computation, 2015, 11, 5947-5960. | 5.3 | 54 |
| 66 | Variational tensor approach for approximating the rare-event kinetics of macromolecular systems. Journal of Chemical Physics, 2016, 144, 054105. | 3.0 | 53 |
| 67 | Markov models and dynamical fingerprints: Unraveling the complexity of molecular kinetics. Chemical Physics, 2012, 396, 92-107. | 1.9 | 52 |
| 68 | Markov Models of Molecular Kinetics. Journal of Chemical Physics, 2019, 151, 190401. | 3.0 | 52 |
| 69 | Markov state models from short non-equilibrium simulationsâ€œAnalysis and correction of estimation bias. Journal of Chemical Physics, 2017, 146, . | 3.0 | 51 |
| 70 | Commutate Maps: Separating Slowly Mixing Molecular Configurations for Kinetic Modeling. Journal of Chemical Theory and Computation, 2016, 12, 5620-5630. | 5.3 | 47 |
| 71 | Optimal use of data in parallel tempering simulations for the construction of discrete-state Markov models of biomolecular dynamics. Journal of Chemical Physics, 2011, 134, 244108. | 3.0 | 46 |
| 72 | Variational selection of features for molecular kinetics. Journal of Chemical Physics, 2019, 150, 194108. | 3.0 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | OpenPathSampling: A Python Framework for Path Sampling Simulations. 1. Basics. Journal of Chemical Theory and Computation, 2019, 15, 813-836. | 5.3 | 45 |
| 74 | Introduction to Markov state modeling with the PyEMMA software [Article v1.0]. Living Journal of Computational Molecular Science, 2019, 1, . | 6.4 | 45 |
| 75 | Data-based parameter estimation of generalized multidimensional Langevin processes. Physical Review E, 2007, 76, 016706. | 2.1 | 43 |
| 76 | Targeted Adversarial Learning Optimized Sampling. Journal of Physical Chemistry Letters, 2019, 10, 5791-5797. | 4.6 | 41 |
| 77 | Dynamically Driven Allostery in MHC Proteins: Peptide-Dependent Tuning of Class I MHC Global Flexibility. Frontiers in Immunology, 2019, 10, 966. | 4.8 | 41 |
| 78 | Estimating the sampling error: Distribution of transition matrices and functions of transition matrices for given trajectory data. Physical Review E, 2009, 80, 021106. | 2.1 | 40 |
| 79 | MHC class II complexes sample intermediate states along the peptide exchange pathway. Nature Communications, 2016, 7, 13224. | 12.8 | 40 |
| 80 | Single event visualization of unconventional secretion of FGF2. Journal of Cell Biology, 2019, 218, 683-699. | 5.2 | 39 |
| 81 | Probability distributions of molecular observables computed from Markov models. II. Uncertainties in observables and their time-evolution. Journal of Chemical Physics, 2010, 133, 105102. | 3.0 | 38 |
| 82 | Explicit Spatiotemporal Simulation of Receptor-G Protein Coupling in Rod Cell Disk Membranes. Biophysical Journal, 2014, 107, 1042-1053. | 0.5 | 38 |
| 83 | Ensemble learning of coarse-grained molecular dynamics force fields with a kernel approach. Journal of Chemical Physics, 2020, 152, 194106. | 3.0 | 38 |
| 84 | Deeptime: a Python library for machine learning dynamical models from time series data. Machine Learning: Science and Technology, 2022, 3, 015009. | 5.0 | 37 |
| 85 | Shedding Light on the Docking-Lock Mechanism in Amyloid Fibril Growth Using Markov State Models. Journal of Physical Chemistry Letters, 2015, 6, 1076-1081. | 4.6 | 35 |
| 86 | Mechanistic Models of Chemical Exchange Induced Relaxation in Protein NMR. Journal of the American Chemical Society, 2017, 139, 200-210. | 13.7 | 35 |
| 87 | Machine learning implicit solvation for molecular dynamics. Journal of Chemical Physics, 2021, 155, 084101. | 3.0 | 35 |
| 88 | Automated computation of low-energy pathways for complex rearrangements in proteins: Application to the conformational switch of Ras p21. Proteins: Structure, Function and Bioinformatics, 2005, 59, 534-544. | 2.6 | 34 |
| 89 | It takes two transducins to activate the cGMP-phosphodiesterase 6 in retinal rods. Open Biology, 2018, 8, . | 3.6 | 34 |
| 90 | OpenPathSampling: A Python Framework for Path Sampling Simulations. 2. Building and Customizing Path Ensembles and Sample Schemes. Journal of Chemical Theory and Computation, 2019, 15, 837-856. | 5.3 | 34 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | Particle-based membrane model for mesoscopic simulation of cellular dynamics. <i>Journal of Chemical Physics</i> , 2018, 148, 044901. | 3.0 | 33 |
| 92 | Dynamic graphical models of molecular kinetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15001-15006. | 7.1 | 33 |
| 93 | Efficient Bayesian estimation of Markov model transition matrices with given stationary distribution. <i>Journal of Chemical Physics</i> , 2013, 138, 164113. | 3.0 | 32 |
| 94 | What Markov State Models Can and Cannot Do: Correlation versus Path-Based Observables in Protein-Folding Models. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3119-3133. | 5.3 | 32 |
| 95 | The Isomeric Preference of an Atypical Dopamine Transporter Inhibitor Contributes to Its Selection of the Transporter Conformation. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1735-1746. | 3.5 | 31 |
| 96 | Identification of kinetic order parameters for non-equilibrium dynamics. <i>Journal of Chemical Physics</i> , 2019, 150, 164120. | 3.0 | 31 |
| 97 | Large-scale simulation of biomembranes incorporating realistic kinetics into coarse-grained models. <i>Nature Communications</i> , 2020, 11, 2951. | 12.8 | 31 |
| 98 | ReaDDyMM: Fast Interacting Particle Reaction-Diffusion Simulations Using Graphical Processing Units. <i>Biophysical Journal</i> , 2015, 108, 457-461. | 0.5 | 30 |
| 99 | Neuraldecipher â€œ reverse-engineering extended-connectivity fingerprints (ECFPs) to their molecular structures. <i>Chemical Science</i> , 2020, 11, 10378-10389. | 7.4 | 28 |
| 100 | Multi-body effects in a coarse-grained protein force field. <i>Journal of Chemical Physics</i> , 2021, 154, 164113. | 3.0 | 28 |
| 101 | Reversible Interacting-Particle Reaction Dynamics. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11240-11250. | 2.6 | 27 |
| 102 | Predicting the Kinetics of RNA Oligonucleotides Using Markov State Models. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 926-934. | 5.3 | 26 |
| 103 | xTRAM: Estimating Equilibrium Expectations from Time-Correlated Simulation Data at Multiple Thermodynamic States. <i>Physical Review X</i> , 2014, 4, . | 8.9 | 25 |
| 104 | A Basis Set for Peptides for the Variational Approach to Conformational Kinetics. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3992-4004. | 5.3 | 25 |
| 105 | MSM/RD: Coupling Markov state models of molecular kinetics with reaction-diffusion simulations. <i>Journal of Chemical Physics</i> , 2018, 148, 214107. | 3.0 | 25 |
| 106 | Identifying Conformational-Selection and Induced-Fit Aspects in the Binding-Induced Folding of PMI from Markov State Modeling of Atomistic Simulations. <i>Journal of Physical Chemistry B</i> , 2018, 122, 5649-5656. | 2.6 | 24 |
| 107 | Rapid Calculation of Molecular Kinetics Using Compressed Sensing. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2771-2783. | 5.3 | 24 |
| 108 | The mechanism of RNA base fraying: Molecular dynamics simulations analyzed with core-set Markov state models. <i>Journal of Chemical Physics</i> , 2019, 150, 154123. | 3.0 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 109 | Discovery of a hidden transient state in all bromodomain families. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 24 |
| 110 | Dynamic neutron scattering from conformational dynamics. I. Theory and Markov models. Journal of Chemical Physics, 2013, 139, 175101. | 3.0 | 22 |
| 111 | Beating the Millisecond Barrier in Molecular Dynamics Simulations. Biophysical Journal, 2015, 108, 228-229. | 0.5 | 22 |
| 112 | Collective hydrogen-bond rearrangement dynamics in liquid water. Journal of Chemical Physics, 2018, 149, 244504. | 3.0 | 22 |
| 113 | Machine Learning for Molecular Dynamics on Long Timescales. Lecture Notes in Physics, 2020, , 331-372. | 0.7 | 22 |
| 114 | Optimal Identification of Semi-Rigid Domains in Macromolecules from Molecular Dynamics Simulation. PLoS ONE, 2010, 5, e10491. | 2.5 | 21 |
| 115 | Optimal Estimation of Free Energies and Stationary Densities from Multiple Biased Simulations. Multiscale Modeling and Simulation, 2014, 12, 25-54. | 1.6 | 21 |
| 116 | Optimal Data-Driven Estimation of Generalized Markov State Models for Non-Equilibrium Dynamics. Computation, 2018, 6, 22. | 2.0 | 20 |
| 117 | Molecular dynamics simulations data of the twenty encoded amino acids in different force fields. Data in Brief, 2016, 7, 582-590. | 1.0 | 17 |
| 118 | An efficient multi-scale Greenâ€™s function reaction dynamics scheme. Journal of Chemical Physics, 2017, 147, 184106. | 3.0 | 17 |
| 119 | Nanoscale coupling of endocytic pit growth and stability. Science Advances, 2019, 5, eaax5775. | 10.3 | 17 |
| 120 | Kernel methods for detecting coherent structures in dynamical data. Chaos, 2019, 29, 123112. | 2.5 | 17 |
| 121 | Spectral Rate Theory for Two-State Kinetics. Physical Review X, 2014, 4, . | 8.9 | 16 |
| 122 | Projected metastable Markov processes and their estimation with observable operator models. Journal of Chemical Physics, 2015, 143, 144101. | 3.0 | 15 |
| 123 | Geometrical characterization of T cell receptor binding modes reveals classâ€™specific binding to maximize access to antigen. Proteins: Structure, Function and Bioinformatics, 2020, 88, 503-513. | 2.6 | 15 |
| 124 | Gaussian Markov transition models of molecular kinetics. Journal of Chemical Physics, 2015, 142, 084104. | 3.0 | 14 |
| 125 | Diffusion-influenced reaction rates in the presence of pair interactions. Journal of Chemical Physics, 2019, 151, 164105. | 3.0 | 14 |
| 126 | Polymer-like Model to Study the Dynamics of Dynamin Filaments on Deformable Membrane Tubes. Biophysical Journal, 2019, 117, 1870-1891. | 0.5 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | Convergence to the fixed-node limit in deep variational Monte Carlo. <i>Journal of Chemical Physics</i> , 2021, 154, 124108. | 3.0 | 13 |
| 128 | Multiscale molecular kinetics by coupling Markov state models and reaction-diffusion dynamics. <i>Journal of Chemical Physics</i> , 2021, 155, 124109. | 3.0 | 13 |
| 129 | A litmus test for classifying recognition mechanisms of transiently binding proteins. <i>Nature Communications</i> , 2022, 13, . | 12.8 | 13 |
| 130 | Dynamic neutron scattering from conformational dynamics. II. Application using molecular dynamics simulation and Markov modeling. <i>Journal of Chemical Physics</i> , 2013, 139, 175102. | 3.0 | 12 |
| 131 | Grand canonical diffusion-influenced reactions: A stochastic theory with applications to multiscale reaction-diffusion simulations. <i>Journal of Chemical Physics</i> , 2018, 149, 044102. | 3.0 | 12 |
| 132 | Deflation reveals dynamical structure in nondominant reaction coordinates. <i>Journal of Chemical Physics</i> , 2019, 151, . | 3.0 | 12 |
| 133 | Cyclization and Relaxation Dynamics of Finite-Length Collapsed Self-Avoiding Polymers. <i>Physical Review Letters</i> , 2019, 122, 067801. | 7.8 | 12 |
| 134 | Coupling of Conformational Switches in Calcium Sensor Unraveled with Local Markov Models and Transfer Entropy. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 2584-2593. | 5.3 | 12 |
| 135 | Thermodynamics and Kinetics of Aggregation of Flexible Peripheral Membrane Proteins. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10497-10504. | 4.6 | 12 |
| 136 | Synergistic inhibition of SARS-CoV-2 cell entry by otamixaban and covalent protease inhibitors: pre-clinical assessment of pharmacological and molecular properties. <i>Chemical Science</i> , 2021, 12, 12600-12609. | 7.4 | 11 |
| 137 | Independent Markov decomposition: Toward modeling kinetics of biomolecular complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 11 |
| 138 | Progress in deep Markov state modeling: Coarse graining and experimental data restraints. <i>Journal of Chemical Physics</i> , 2021, 155, 214106. | 3.0 | 10 |
| 139 | Symmetric and antisymmetric kernels for machine learning problems in quantum physics and chemistry. <i>Machine Learning: Science and Technology</i> , 2021, 2, 045016. | 5.0 | 9 |
| 140 | Parameterized Hypercomplex Graph Neural Networks for Graph Classification. <i>Lecture Notes in Computer Science</i> , 2021, , 204-216. | 1.3 | 9 |
| 141 | gr4nifai: interactive multiparameter optimization of molecules in a continuous vector space. <i>Bioinformatics</i> , 2020, 36, 4093-4094. | 4.1 | 7 |
| 142 | Coupling Particle-Based Reaction-Diffusion Simulations with Reservoirs Mediated by Reaction-Diffusion PDEs. <i>Multiscale Modeling and Simulation</i> , 2021, 19, 1659-1683. | 1.6 | 7 |
| 143 | A scalable approach to the computation of invariant measures for high-dimensional Markovian systems. <i>Scientific Reports</i> , 2018, 8, 1796. | 3.3 | 6 |
| 144 | Hydrodynamic coupling for particle-based solvent-free membrane models. <i>Journal of Chemical Physics</i> , 2021, 155, 114108. | 3.0 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Porting Adaptive Ensemble Molecular Dynamics Workflows to the Summit Supercomputer. Lecture Notes in Computer Science, 2019, , 397-417. | 1.3 | 5 |
| 146 | Neural mode jump Monte Carlo. Journal of Chemical Physics, 2021, 154, 074101. | 3.0 | 4 |
| 147 | Generating stable molecules using imitation and reinforcement learning. Machine Learning: Science and Technology, 2022, 3, 015008. | 5.0 | 4 |
| 148 | Response to Comment "Transient Complexes between Dark Rhodopsin and Transducin: Circumstantial Evidence or Physiological Necessity?". Dell'Orco and K.-W. Koch. Biophysical Journal, 2015, 108, 778-779. | 0.5 | 3 |
| 149 | Computational tools for analysing structural changes in proteins in solution. Applied Bioinformatics, 2003, 2, S11-7. | 1.6 | 0 |